Cell Health Monitoring

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Lecture 24

Cell Servers

- cell show <*cellname*>
- cell ping [-replicas]
- cell backup
  – need to define an ERA called bckp_dest which contains the file name to store the backup and attach to the principal dce_rgy and cds-server. Backups both the registry and the CDS.

Clearinghouses

- clearinghouse catalog <*cellname*>
- clearinghouse disable <*chname*>

Clearinghouse Counters

- clearinghouse show <*chname*> [-counters]
  - » entry missing events
  - » data corruption
  - » bad skulks
  - » bad upgrades
  - » number of times disabled and enabled
  - » number of partial answers
  - » reads, writes
  - » root lost events

Simple DTS

- dts catalog <*cell*> [-simplename]
- dts deactivate <*dts*>
- dts activate <*dts*>
- dts synchronize <*dts*> [-abruptly]
- dts stop <*dts*>
- dts configure <*dts*> {-global | noglobal}

DTS Modify

- dts modify <*dts*> -change {attributes}
  - 29 different attributes including
  - global time servers
  - time out, clock adjustments, clock resolution
  - synchronize interval
  - time zone
  - tolerance
  - epoch

DTS Counters

- dts show <*dts*> -counters
  - server not in cds
  - different epochs
  - epoch changes
  - faulty servers
  - no response
  - provider failures
  - synchronize attempts

DTS Failure

- A cell that is 5 minuets out of synchronization will lock
- You need to stop all dts servers but one. Make it the global server and change the minserver to one. Bring the other servers back on line and synchronize clock. Return the minserver and global settings.

Local Clocks

- clock show <*dts-entry*>
- clock compare <*dts-entry*> -server <*dts-entry*>
- clock set <*dts-entry*> -to <time>
- clock synchronize <*dts-entry*>

Simple Registry

- registry catalog
- registry verify
- registry disable <*registry*>
- registry enable <*registry*>
- registry synchronize <*registry*>
- registry stop <*registry*>
- registry dump
  - show registry information

Registry

- registry set <*registry*> -slave
  - make slave
- registry set <*registry*> -master [-force]
  - make master even if out of date

Registry Modify

- registry modify <*registry*> -change <*attributes*> -key
  - ticket attributes
  - policy attributes for entire cell
  - uid, gid limits
  - state
    - » becoming master, becoming slave, closed, changing key, copyingdb, deleted, disabled, dupmaster, enabled, initializing, savingdb, unavailable, unintialized, unknown

Registry Connect

- connects one cell to another cell by establishing a common account
- registry connect <*registry*> -org <*org*> -group <*group*> -acct <*acct*> -mypass < *password*> -forg <*org*> -fgroup <*group*> -facct <*acct*> -fpasswd <*password*> -expdate <*date*>

RPC Entry

- rpcentry create <*rpcentry*>
- rpcentry delete <*rpcentry*>
- rpcentry show <*rpcentry*>

RPC Groups

- rpcgroup create <*rpcgroup*>
- rpcgroup delete <*rpcgroup*>
- rpcgroup list <*rpcgroup*>
- rpcgroup add <*rpcgroup*> -member < *rpcentry*>
- rpcgroup remove <*rpcgroup*> -member < *rpcentry*>

RPC Profiles

- rpcprofile create <*profile*>
- rpcprofile delete <*profile*>
- rpcprofile show <*profile*>
- rpcprofile list <*profile*>
- rpcprofile add <*profile*> -member < *rpcentry*> -priority <*number*>
- rpcprofile remove <*profile*> -member < *rpcentry*>

Application Servers

- server catalog <*host*> -executing
- server show <*server*>
- server stop <*server*>
- server start <*server*>
- server delete <*server*>
- server enable <*server*>
- server disable <*server*>
- server ping <*server*>

Appellation Server Create

- server create <*server*> -attribute <*list*>
  - directory, arguments, uid, gid, keytabs, program, principal, services interfaces, flags, entryname,
- server modify <*server*> -change <*list*>